CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/KVS/W.No.09/CSR-974g/CEMENT/2019-20 Date: 03.06.2019

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094.
*** Name of Work**	:	Improvements to drains at Syndicate bank road 5th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Cement
Sample Received on	:	01.06.2019
Period of Testing	:	01.06.2019 to 03.06.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	375 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore - 97

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Job No.: CTCE/BBMP/KVS/W.No.09/CSR-974g/SAND-Gradation/2019-20 03.06.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094.
* Name of Work	:	Improvements to drains at Syndicate bank road 5th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2007)
Sample Received On	:	01.06.2019
Date of Testing	:	03.06.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.80	90-100	90-100	90-100	95-100
2.36	80.40	60-95	75-100	85-100	95-100
1.18	62.40	30-70	55-90	75-100	90-100
600 Micron	42.20	15-34	35-59	60-79	80-100
300 Micron	22.70	5-20	8-30	12-40	15-50
150 Micron	8.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/KVS/W.No.09/CSR-974g/AGG/GR/2019-20 03.06.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094.
* Name of Work	:	Improvements to drains at Syndicate bank road 5th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	01.06.2019
Date of Testing	:	03.06.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.56	95-100	85-100
10	40.28	25-55	0-20
4.75	6.38	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/KVS/W.No.09/CSR-974g/CC Solid Block/2019-20 06.06.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094.
* Name of Work	:	Improvements to drains at Syndicate bank road 5th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 150mm x 200mm
Cross Sectional Area	:	60000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	04.06.2019
Date of Testing	:	06.06.2019

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	26.15	257.6	4.29	Minimum required Compressive Strength of Individual Units 4.00 N/mm^2
2	Block 2	25.32	258.4	4.31	
3	Block 3	24.92	261.3	4.36	
4	Block 4	25.32	263.8	4.40	
5	Block 5	26.65	263.2	4.39	
6	Block 6	25.23	264.1	4.40	
7	Block 7	26.65	260.8	4.35	
8	Block 8	24.35	258.6	4.31	

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Job No.: CTCE/BBMP/KVS/W.No.09/CSR-974g/CC Solid Block/2019-20 06.6.2019

TEST REPORT ON BLOCK DENSITY OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094.
* Name of Work	:	Improvements to drains at Syndicate bank road 5th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 150mm x 200mm
Cross Sectional Area	:	60000 mm^2
No. of Blocks Tested	:	03
Sample Received on	:	04.06.2019
Date of Testing	:	06.6.2019

Sl.No.	Size of Block in mm	Mass of Block in Kg	Volume of Specimen in cm^3	Density in Kg/m^3	Average Density Kg/m^3
1	400x150X200	24.365	12000.00	2030.42	2125.17
2	400x150X200	25.956	12000.00	2163.00	
3	400x150X200	26.185	12000.00	2182.08	

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KVS/W.No.09/CSR-974g/Cube/2019-20 17.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094.
* Name of the work	:	Improvements to drains at Syndicate bank road 5th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2019	17.07.2019	8.264	367.3	16.32
2	19.06.2019	17.07.2019	8.358	375.4	16.68
3	19.06.2019	17.07.2019	8.465	385.4	17.13

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Job No.: CTCE/BBMP/KVS/W.No.09/CSR-974g/Cube/2019-20 17.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094.
* Name of the work	:	Improvements to drains at Syndicate bank road 5th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2019	17.07.2019	8.398	379.8	16.88
2	19.06.2019	17.07.2019	8.425	386.5	17.18
3	19.06.2019	17.07.2019	8.295	392.4	17.44

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Job No.: CTCE/BBMP/KVS/W.No.09/CSR-974g/Cube/2019-20 17.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094.
* Name of the work	:	Improvements to drains at Syndicate bank road 5th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2019	17.07.2019	8.095	387.8	17.24
2	19.06.2019	17.07.2019	8.118	393.5	17.49
3	19.06.2019	17.07.2019	8.267	405.8	18.04

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Job No.: CTCE/BBMP/KVS/W.No.09/CSR-974g/Kerbstone/2019-20 20.06.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094.
* Name of work	:	Improvements to drains at Syndicate bank road 5th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Kerb stone
* Grade of Concrete	:	M_{15}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	18.06.2019
Date of Testing	:	20.06.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.393	2566.07	1.56	0.952	23.25	11.84	12.79	13.43	16.78
2	50.00	80.00	0.399	2540.11	1.60	0.957	24.65	12.55	13.56	12.97	16.22
3	50.00	81.00	0.402	2527.62	1.62	0.959	25.90	13.19	14.25	13.66	17.08

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Job No.: CTCE/BBMP/KVS/W.No.09/CSR-974g/Precast slab/2019-20 20.06.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094.
* Name of work	:	Improvements to drains at Syndicate bank road 5th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Precast Slab (100mm)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	18.06.2019
Date of Testing	:	20.06.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.415	2577.53	1.64	0.961	30.25	15.41	16.64	17.31	21.64
2	50.00	83.00	0.416	2552.62	1.66	0.963	32.65	16.63	17.96	17.30	21.62
3	50.00	84.00	0.421	2552.54	1.68	0.965	33.85	17.24	18.62	17.98	22.47

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Job No.: CTCE/BBMP/KVS/W.No.09/CSR-974g/SAND-Gradation/2019-20 03.06.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. K.V. Subbareddy,** No.106B, Aswathnagara, RMV 2nd Stage, Bangalore – 560 094.
*** Name of Work**	:	Improvements to drains at Syndicate bank road 5th Block BEL Layout in Ward No.09 (Vidyaranyapura) Vidyaranyapura Sub Division, BBMP, Bangalore.
***Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
***Sample ID**	:	Fine Aggregates (Sand Pointing)
Technical Reference	:	IS : 1542 - 1992 (RA-2014)
Sample Received on	:	01.06.2019
Date of Testing	:	03.06.2019

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 1542 - 1992 (RA-2014) Clause 5.1
10	100	100
4.75	98.70	95-100
2.36	97.20	95-100
1.18	96.00	90-100
600 Micron	92.80	80-100
300 Micron	36.30	20-65
150 Micron	9.80	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected from the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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